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Win a Specifium or Cheeleb levelate 25

Structure over a bandred prime to be world! # 10 these and Greekles will be the fit 71

Light Screen Designer. the Steel entends M # Arveilre sporting has on the 61, 64 COOR Day Cricket has bellean on the 66 70

Nebewees e Speeky Spectrum game, 79 Displacements a special extraction for the functions of

Description have because having been been bell field BAARDANES 22 A direct Little Printer, joyelick, olid begin-up posine Mary from America.

The cost beinded problem once. # CHOSSFIRE M

> # OL COLUMN AT THE COLUMN ST # 2407 FF The pega for '61 owners.

Amaboug/Electric: the below room, \$ # 655 there went to beath show to

Herer Mind the Keyport, on ellumetics to the 125's keypool. 26 # Sendon Maratra 32

#OCF Otto: Eyes comes for the price of enot to # Recins of interaction; create your own adventures, M # Foster Bosic, 50

Whoreset the examply's most pegular micro solveds, 5 # Anninger's States to Driebers 47 # Microsof Other Incredible value special offer by TX

build Your Own Suitable Boson, \$5 WAY Sharks Arthri many corticon abits, 59

sherrining Microsophia Pales Chicagolist up 1 John.













PECTRUM GAMES TOP TEN

Mini-Vac

dishibuten en 01 337-3392

is this the affirmeds in parametric your Spectrum? Susses bessed company, Authoritisty, bean produced a relatebase wanters absence eather Mirities, Interplay for our with Night Priced of \$11,15 it's intended to allow you to recess duct and the best floor body fifty across on the conscious books and Audeboo by the state of the IV office manifests a minimum could contrate some to boardy consultant of should be in the sheps seen, or you can contact the ford The ML-10 corner in her reheats a Gara - TOTAL A. MESSS (ESTR. If Buffs offsacted you

Star Printers







SINCLAIR: WHAT NEXT?

As the dust settles on Sinclair's deal with Amstrad details are emerging on the tate of the Sinciair range.

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Device on mo copools of the copy of the first part of the first pa







THE MONSTER RATINGS













ZX Computing Monthly - June 1980





Does your micro answer back.

- Does your micro chat to 70,000 people across the UK?
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BOUNCES



SHOW

The Consumer Flectronics thow

supposedly the Spring showcase for new software and hardware products delivered few surprises.

Descrite a strong show the software looses the CPS dominated by the protusion of like something you pick up one digit the state or opporately

ontainly confi be contused with grathing else, But then it you are shelling out large sums in the hope of ploking up five too I didn'i see a telephone

come up with the idea of software houses and peripherals ground with Cheeton unwelling most new products. On the reviewing Stagles, Seyond were shelpedytalogy between const

Subtre Sur Had a pre-production copy of an amana folicle Policios follow up to Sebaleur B on the Millow up to Sebateur III on the way — this time with a temple testine Should that be the compone who developed the Garre Eller for

the C64, a program that isobiles south exponention or that you can proceed through a game without loss of time ray

Roinbird adventure Pointing Software which up till

quality utilities like the Art Studio

Level 9 hours been contracted Direct v reave peen Common

The agreements were signed the CIS show and low

orromation to we shall be rathefed adventures garous at

Software commented, "We are going into adventures in a big way and I think with bright the orberture and Manualis Son

Dumoson Adverture and adventure games. We expect a products in a unique way Arito Smoles, managero director of Magnetic Scient, sav Doundaries with the fown
This oppositions with this highland This agreement with reserve enables us to continue our research into natural ignousage

minors adventures under their own name but their first joint

load version of the Gellossal trillagy — Colossal Atlantica

Into the Valley of Nidd Another new morketing ogreement was approunced of

From now on Nidd Valley's products will be implieded as the

Nelware range by Domais Jeloskystely the Digimouse and Anamouse solveguted to be lounched at the show have here religized but we have to Gold plated

A new latted to appe perpherois sterie is Priverpina

g history at all says Ash Toylor, Fowerpass's managing director "gold plating enurses good connections and in the gost rooms problems with invarious Corporation with both 48 and

28K Spectrums the single port referace will retail at \$9.95 and ZX Computing Monthly June 1965



wity the Museuses this was the only or

> Thave a 5.25" soil on drive 2 converting the basic loader to long firms as this is just one uge and most peoples.

must have got a

hidden lines, and then re-inser entrust the cade on disc 1 used in these sections, underved easily with the MOVE gely in 450 mode. Never stees, 5 hips several

is composible will



Gripping stuff ing Gripstick tional control state, though small

The conventional joystick part e Speedking ton Kary ia spenaking non kanyk orrouter Products is collect a pripariok' softer than a joysick recouse of the shape of the eccuse of the shope of the and unit this is abstract to said way that It lits gameanably me a way that I till conventably in the paim of your left hand, an

were growing out of the pain of your hand. If does look a bit odd, and not at all streamlined, but it lits the hand outle ut it lits the natio quee omfortably unlike the long dres du souse more couveu-

Of course the real test of any tried it out on Sai Combat which, being a tung fu game required more than juli fast briasing skills. On all ocurns the Speediana performed mally



If works so well because the handshaped grip allows you to hald it agministry and one than an trying to stop the joyalak from thing out of your hand. The position of the time button is also well thought out and list! thely bunts of the My only criticism of the Speecking is that its and I personally would rather use the Speecking than 3sel about any other blystick that I've

Changing tunes opendrum software have got complete tifs of eight institu-ment which have to be loost The Kill Editor allows you to plak individual instrument sounds

drum Latin Kit

his just actually a piece of leadware, but as it's a software odd on to Cheelah's Speciarys I The Latin Kil, which also recodes a Kin east of the reverse side of the tope allows you to program eight new wessign codedy on some v

the editor also gives you the The ageodrum has already magazine in the country and I you've get one fiven for just \$3.99 the Latin Kit and Editor is a

eap and useful and then to



23



Operation I connected It to the Spectrum concell reso tourid a muse your concern economics by IRENT 1, fast \$5222 pari (offer making up

letters and business printers produce 'official' documents is: Economies had to be neede ged the west noticable is that the There are any two trant panel states. ON LINE and Lif, Farre CHES 12

performed with a special print program so I used it with TASPUS

idet program and encountered no problems, except that you are limited to 48 CFL in this

mode

fint guptly is expellent,
especially NSQ, and I would be
mose than happy to use if for

will perform a 27 from survivore control or normal. The LT switch also doubles or the NG prode switch — this is This is a very good priver with a However If you are testing for a printer with specific leasures

THE GREAT LITTLE PRINTER aperated without any problems poper leed private they are sowings on not having as \$528 oould buy you work factures officeations for Shaper COMS

Tenh. Specs. fine minutes when it produced The CSP S is n SVS dot motor of sorts of garbage and switched reader at randow white using 1489C60 2. The cosing probably will not lolerate rough handling if an a longitude point in the cost of the cost o even Sub and Superscript modes. Working of 900 ops in draft mode there is a full set of part styles Freezowst. Dourse

Strike Emphasised Condensed of these can be used together in A switch selectable NGL Stear Letter Condition made in consisting Having both sensy avvi

Certiforial park makes in SS230C intertope is fitted on the back of the printer. The max line length is 8". Namual Floo made prints a maximum of 80 CPL ratio to a maximum of 82 CPL on the spectrum with peripherals ZX therface I, Walactive Opes Bloovery etc. and not lossetting the space of regardle printer interlocus A "Bit Image" graphics made is available plus 12 interestorial

The DP switches which control some of the initial functions on power up are standard and are note form all cinamprion services to be that you ofready know about \$1 and dyanged functions on the ortoos o life expense but

well with your consideral ZX Computing Monthly - June 1986

TROJAN

REPLACEMENT OF MIC EAR & POWER SO

SUPERB GRAPHICS SOFTWARE LIGHT PEN wer the exciting world of creefing you en graphics on screen. . FRESHAND CRAW - 5 per thicknesses incl. Quills . PART BURSH by the select fourth

PANT BRUSH for the artistic fouch FILL SAY SHAPE use all octown and peliterin GROMETHIC SHAPES states began blanches, fires YNAMIC RUSSER SANSING: on all promotic retions

KEYROARD AND REPAIR SAGA EMPEROR ONE INC. BEING SACA EMPEROR ONE AND REPAIR B-IBM CPGFACE IS north Waterly ZX -- INTERFACE I -- REPAIR

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Districted .

NEVER MIND THE KEYPAD — HERE'S THE



INTERRUPT ROUTINE

The Specifium SS convert
the Specifium SS convert
the SS convert
t

New keys

Be new editing less contain such functions as Delete Right, More left to the Scat of the next years and as on the program is

kins tooks whose hery believe — or the common and the common to the common of the common to the comm

inconstato was the 64 days DOWN custor keys will never the blaser to the line and leaf line of the program respectively. INVVICEO moves the custor by words. If you had down INV. FROM RC

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1994 IX 997 NG ID 16,0054 NGD IN,50 IN 2,50 IN 2,50 IN 25,70 IN 25

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counter such the ctors.

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It's priors to local RT_FEET

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terp select in Emple.

Dire moto for later retrieval, as- Lest bey computed, possibly a by this interrupt residue.

> Points to latel MFP_SP on key changes in come

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Of Sepont for all all Discretification and

the prints to book the matter

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| 16 | INT_BOOK | AND (NE) | As- bighoord som of next biggrou. | ward to "Ward" in this context is a securence of anything except- |
| 91 | | EP 1653 | | (DT will regive the Cultion Mitward |
| 2015 | | AL13,37,30903 | dump unless all regulated hits are set | to the yout of the near word INV- VIDEO with UP and DOWN will |
| | | me vi | (in jump if my large stone time 2005 | move the curror up or down by |
| 0100 | | SIG N | Visite, Dr. Visite, Special criter, and the special break present l. | |
| | | | | privitor, shelf may now be |
| 3615 | | 28 0,089_850s8 28 A(X) | Argust to test all lines. | |
| 17 | | TH ACC) | An begans from The over. | |
| MCI. | | | Jam values GAT SEET to consent action | produces Delete Left" - exactly |
| 3161 | | | New Arters CASE SECTION IN COMMEND AND AND | |
| | | 33 4,41 | | key SYVECUSHIT WIN CURSON |
| 2110 | | DEA,(PR) | | RIGHT however, produces Delete Right which deletes the |
| 17 | | RSA | | |
| 2658 | | A12 36 | | SWACLSHIT may also be used |
| 47 | | 33 E,A | Con more of TSS TES, DET TES and SEPT. | in conjunction with either 1918- |
| DEEP | | E 1,0 | | |
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| 17 | | Xts | | the right of the custor position, and \$1MBCI, \$4911NV |
| 1610 | | the of | | |
| 47 | | | Nino technic com of NP, NNM, and NINO. | the next word to the left of the |
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| CHE | | mr 4,c | Alen brokens own of STN WIFE. | |
| 79 | 34.10 | 33 A ₂ 0 | Are seen of all required began | |
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| ** | Doc age. | GF (HI) | | |
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| 2006 | | 13 KD, DR, NRO | | some time will produce the record |
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| 45 | DAT NEWS | DIE NS | | |
| 1070 | | DWG DATES | depost for all required tests. | aport from adding new keys. The symbols bush as square bracke |
| 79 | | UD A ₄ 2 | A will now conducts atthor a new key releas | |
| | | | (as yer the keypor), or F9 Conventional | were previously only attainable by going into I made have now |
| | | | namer lays), FE (DE TE sizes or ST | been put book on the keys |
| | | | WED nines), or SP (asymbol wise). | |
| 2574 | | Ch Ma | | oteam square-left fracket new. |
| 3018 | | ALC, DT, DOOR | Juny 1d a new orlitting key flower. | gill you have to press is \$114906. |
| 305,810 | | SO A, (BY, SHIRT) | | |
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| | | | | |

Of mer key not declared than you to Annual State of the same of the same sa (wood), as If owner key detected then signal. AT ROPAL gad theres duri with an normal. One that point - uses of the spectrum 128 may have naticed

397,966(NY 290 C A STREET

ZX Computing Monthly - June 1986

the new full Screen Sollion used for NPUT If you type IT AS then you I lind that oil If MUST be possible to obtain to keyward SIOP on SYMBOL corpetrophic Sin worked Trait sold, I'll leave you to type the noutrie in and SART It its well worth during I for one

ments per ment of Chr earl DITTO A LDE DOW DOT_DOM 7564F DE (PERUAL) DAT BORNE OVER COM DESIGN 397,480004 DIT. BHO 1079

MAX DIST. SPOCKS DT_BET

Ter SING.

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Borbore Drace cours to five.

becomes runti metals.

Ac- May value of May Junk determed \$12

Dr. NUS Dr. sette

201,32,00

WIN A SPECDRUM

There are tive of eetah 125 joysticks

ops and there are the up for nich feglure faur fen buttons. re types of crum Stripty rith the norse of the days.

reputing Moretry, No. 1 iden Square, Landon W18 3AS ries to be received by Set nes to be received if on Arty 4th 1986 e Clues You ball water in it toon set for smoot governor or

Seenoh Manuting and



Specdrum Competition Entry Form

Address Computing Monthly, No 1 Golden Square Landon WR SAE Chairing data is July 4th 1955. Please terrember to wife shall annues on the

CHECK

chess program can be yours if you are prepared to make the

sacrifices. Srian Secke mokes his move against QL Chess,

Spectrum Chess Spechess II.

Birmoring your Smotest to a quick, declaive defect can be heldeducilly rewarding and ituations the journally rectured in microcompeter play in the examples that follow, I save bitten a level of play which gives

the confount between low or the missists to make its move. This motions the Git Level-H and is roughly of a bornamer standard without motion, experimentation difficult with enclass line delays, for each pagaran, the levels are C. Ches, Level-H, The fact, C. Ches, Level-H, The fact, Gors not lose its Juli are missis does not lose its Juli are missis

does not take its full ten misses for this level, Speches II, 45 minutes per move, and Palant Spechus postage, It weeks in the CII, I delayed massing a move for a minute so to be go the computer the advertage its ability to analyse while waiting.

Have a look of the two clar

o 55 when the opposer is to some if to 80 for a double held. Fortuna the program of the program

and the country of th

espicits if it depote of being a stong apparate Sacrifice Fortunally for ut the Spectrum programs are highly valverable Amendatilly to back scorios in impairate orbitals of a impairate or not just a weathers or ment of a weathers or ment or more or micro spice to more or micro spice to more or micro date to more or micro date to make a proposal program will out to program will out the back or make the program date to the the program date to make the program and the the program and the the program and the the program and the program and the program and the program date to the program and the program date to the program and the program date to the program date

ing as immediate industrial in 8 to his literalises of a 5th his literalises of the same very his metabons of same very literalises of same very l

ZX Computing Monthly: June 1986



such or 100 LEF x = x + gently() = "8") + [MEETS = "0") you've obreads used the Spectrum Lings constitute without motivier In the outside us to how resinfaces and lagical operators work II read Chapter 13 in your manual Rather left been to the point Bother lets seep to the pure and see how they can be great ineracry spaces: the equivalent in ordinary RASIC would be HO IS DIRECTLY IN THE LET Y Talk takes up 48 bytes, (and

you have ever hosed in a

True or take

The basic idea is that it the

returned on 5 May prosent therefore by pressing the 5 km

prised one column turber porces the somen if you was

The triobien with such a line screen to prevent this you have to make sure that a remains

90.40 (0) for 120 if x = 31 THEN LET x = 21 130 if x < 0 THEN LET x = 0 If taken up grother followers

removed in the original line 190 LET x = x + pricers = "a" AND x ~ 30 − prineers = "s" AND x > 0 eg x > e; The greended line takes un

true to every is the some or NOT Enough of this betwee you've completely confused (Apologies to the NOT fourt hearted) who The problem with INCEYS IS Nime so diagonal moves see not possible. Using IN solves the

1045 Now the first brocket is

only true if you are pressing 8. AND x is less than 31 Both must

withheld as 1 The other religions ore ... which is the opposite o

GW *, which is the appears or *, * = Scapolite of *), and ** the other logical operation are thit and NCF OR returns 1 if either or

10 LIT x = x + (pe 4950 + le 57342-0593 - (pt 64590 + le 63622-0593 - (lf y = y + (pt 64278 + le 22706-0515) - (pt 64278 + le 44438-0593)

No more fumbling for those owner keys

Positines to let Edocart open to more much

the signal that a Balween the or and the bill is a minimal. expression occupies 11 bytes, its

usual equivalent takes up 38 TO F a m b THEN LET * = 1 10 P G = D THEN LET X = 0 20 P GOD THEN LET X = 0 See how logic saves you

special It you want x to equal problem. Asl change the line LAT x is desirable and If (0+b) is true if natures as 1, so a becomes 1 = 10 if it is not true than x = 10 = 0 is 0 true than x = 10 = 10 is 0 true than x = 10 = 10 is 0 true than x = 10 = 10 is 0 true than x = 10 is 0 tr (544+6) Le unicom moris 2 la The process is repegled over

increment score(c) it, say o

Respects (INITY) motobes of

O LET + = + + SMITTYS - STRS

be converted to a string (1995) or you'll get an error Nere's another fourther you might lied a use for 16 Lift a a 1

10 LET G = 1 20 LET G = NOT U 30 PEINT AT GQ CHRS (144+c) 40 F PROTYS = THEN SETURN

following ucig as the same creature in a different posture.

Looping the loop

the led images with you press o

This is how it works, the opening

unicom mais 1 is printed. When

CHIS 144 is the first udg it you

Note that the number a house

TOU COURS ON A 150 OFFI PARTY OFF You're goed to death! Now survivers are great byte egies, Sementer the six Ent of three originals to why works byter with 19 IF x = 5 THEN ... or 50 IF x + 4 THEN ... or 50 IF x + 4 THEN ... when you can miss out the number and just

10 IF x THEN ... In the state way P x = D THEN ... can be employed by IF NOT x THEN oan be And here's a strange one The 10 IF x > 1 AND x > 0 THIN LET : * 1 can be makeded by 10 LET x = NOT NOT x

It really does work though you might get your brain in a held trying to work out why? Moving on new to PRN inc. the rule about new I been ZX Computing Monthly - June 1986

outine using a minus value. So pensing 3 GOes 10 8+0-40+150 is 65 and secondly it you press the wrong key toring key! the 10 IF r = 1 THEN PRINT "DED" try It thus provides a useful MUSE plus error from 20 IF r = 2 THEN PRINT "BLLE" 30 IF r = 3 THEN PRINT "GREEN" D total of 69 bytes, can be arms, wan t = 31 + Labsis o Leint Lash. With t = 21 +

AND I = 30 toking up only 57 bytes if none of the relations are true then nothing is printed euessina aame

Here's a slightly different use with FIRM! Have you ever seen in a fuction with two lines and Table PEINT "YOU I", A "PUSSES LEFT" A = 1 THEN PEINT "YOU I 1 OUESS LEFT"

relations within a bracket are true will the whole be true also

Here you are using a total of factor, in some 22 of these uses INT TOU HAND OF The "ES" will only be odded if

explications of logical opera to simulate the ON 600 to the simulate the ON . GOTO tound in more disposed of MASC

NO P INSETS - "T" THEN BOTO 12 IF INKEYS = "2" THEN BOTO 900 30 IF MATES = "3" THEN GOTO

or in the gloove reamotion the Sea murchast to GOTO one D GOLD ANT IMELAS . 400 his patient word work if the y is passed]
Solve the problem like this.

ploce lines such as TO IF INSURYS = "2" THEN GOTO DO P MATES - "3" THEN BOTO

O GOTO 100 AND INSETS = "2" + If you press, say it, only the first mission is the the others misst as 0, so you GCFD 600+0+0+192, is, 790, and so on

Trap is set lagio can also play a part in eror irappina. The following routine will only allow through a letter between A and E Arwiting TO IN MAKEAS - A. ON MAKEAS -

THEN 0000 12 OF PERK 23556~ 65 DO PERK The Sween Vanable of 2355 the upper case later for number) on the key pressed whotever the state of the state

hyde Bish gives some

not enottenopue locipol ving memory in your

In Mesages appearing in the edit and lines 22 and 25. PRINTed using#6 can be TURN Viginia de prepara PRNIED (X2 brank spaces) " line on the lover part of the map or illumination can be elegated by using NMT XX x, 6, Where x = number of lines to be cleaned + 1 be current filled papers. E FOR F = 170 10 : E1AD 1. 0 :

Great the bottom live tines of screen (gusuming the 98%) position was being my (7) us position was below row by use FERM AT 8, 8; : BEFUT AT 4, 8; which is 32 bytes shorter from the more usual FOR 1 at 17 TO 24 . FERMI AT 1, 8;" (22 spaces) " :

A soving of 30 bytes

E you need to clear rows in difference. There is no need to use 32 blank spaces. Two commot will do the lobs so to egr (per 13 to 15 per AT), ROT (per 13 to 15 per AT), ROT (PER AT),

bytes. There's na point in having RITURN Calling a subrouline dub 15 byles on the shawing

Subroutines

lva points about autrouines

program
The title undergood are theseigne little used DSF FN umpre use say you have on adventure where some sufcome

INTERNO * 6 + 5 = ... time, but DIF I'V will first define. DEF PN IS - INTITIOD . 4 + 1 Then whenever you need the ice throw use IF FM rt) = . . . If you want the total of two

DEF FN IS = SUTIEND + 6 + 1) + MITEMD + 6 + 1) are held, numeric DATA always takes up a lot of space if vertables are set for hymbers eq. LET a = 8 then a great deal of put to good effect yeing the EEST supposed on of SEEDs in other wasting, so use a loop, set to the number of notes to be played. READ the length and plack of some party sales have DATA, and EST

copitol letters the same as the name of the nate - A & C eta copins leaves the some as the name of the note. A. S. C. etc. (see IC for top C. Sh for 5 for, C.\$* for C. thorps, and others for the nate length, declaring the should first, then the others in terms of this one flag. O=5 for gogvery, ki-q+q por cegiones — you/ve alteady used cfl, dk+p+p+p for dated analahel

CLASSIC GAMES OFFER

in an exclusive after ZX and OCP are offering readers three af their Classic Games range



The coloratops of Est offer cost are cost off in these has control loyed and Ches the San Charles Boyd and Ches the San Charles Boyd and Ches the San Louise Est I don't genere related in the states of Est in best of whether you in a need whether the layer than the state of the state of whether you in a need whether the layer than the state of particular to desire the state of particular state of the state of particular state of the state of th

> this in limit numerical article and an even harder garden of an even harder garden one you must got the back to the position begang the me fautible. Souther and proposed southers and position are backed an Osalmo Stryot with input you his hagelity and provide and the on the general put of the on the general put of the on the general put of the on the player up to six players and haudes half deficies on how to

is disclaime oan be played o to the beginner and det hat delicate on how to the game to the game to the game to the delicate on the same to the delicate on the same to the delicate of the same to th

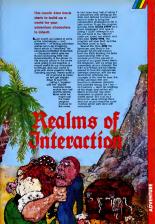
EXISO' Clouds: Games Offer Coupon

Protes and me Video hool. Coaled Boyd and Chees the further for the first for the protesting producting a product of the first for the product of the first f

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Sand this coupen with was chaque or p Computer Fablishing Ltd. 77A factives factinghampiae, S.5 Bio

Computing Monthly - June 1980



Map of the world If you one feor yourself away from your new liftend for a minute or two, we aught to take a look at United 1 in more detail. The waters \$500 should be no

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using the "Storiet" merchane could routine from lost months orsicle. The subsquarine of line \$00. or ABNO Incade more, Little 35AC Is

2) Lines 200-300 prompt for a

nothing ever happens! Never Acres 18 years will advanced

di The groy MSI eductively

Si Character names, abjects, lacation names, and company

describe on "Impossible" fronting which is all the work

furthed noth that Mexic out go with explaint edge the variables t and t are used as flags to prevent the paggram living to

extracted, and to eliminate attended to the contracted to the contract to the Demo routine I sign not be immediately

in the acrosy (\$2 for example if in a 2 and jo = 1, then (\$0,0) = 4 [see line 9520 50 his location corresponds to the 4th filem in

main program running land a outer raved on loan! EFEAK. oupy traved on tope) EPEAK, and 656 his program lines in Litting 2 Then enter SQTO 9500 put your feet up, and all will be on explained in words exactly what each lightlan does. And at the end it will show you the re-sugges for as long as you

these arrays to pervecte less messages in personned by the

length of the lead reconge to be

mg(1)+" decides to go no processes the "era stall of the sear of t the *** Describe Location

100 at 110 pt 110 , 4 at 1

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BCH and initialize Clam sees 1080 "Gog Nidota 9 spyth 6 188 " Lt di Lt 1000 Lt 160 100g 50m pstd. 280: rod 1 5: Acto X.u.zi Lt psti. 13 com x. Lt pst. Cang y Lt psti. 3 to 1-28

........ POR 191 TO R. dett. trackes w. LET att 1819, 881; FOR 1-1 TO 9;

INTERESTRUCE CHRESCYCE THE DEFINED CHECKINGS

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F 464 TITE TO THE LET TO THE LET TO THE SET ##0 xb-"n"2+42 #0 xg-"1+44 fiel xg-"n"1+6 field y 14EN DO TO 244 #0 (1442 field 104



37

PATSHOTS

at? Only four games

Complication tapes seem to be oil the race of the moment, and hevire undentandably popular

For the people that buy the topies the rapes there blessing, and the value of the

compligitors can also very good littles of Just under \$2.55

Surprisingly, perhaps, the fint of the two tapes ticks of with on recent release from Activities. If seems like a good idea to me

good choice because it conver-complete with a Moscal program that each as on Markey was the set contribution to Hotzych is

ghiling Worrlor Released in the ske of their highly successful Exploding Flat, Wanter puls the martial offe action We on gypeton setting You play on gypeton priece setting out to

Rather than going through the combat books used in most other martial arts games, here you

landscape in search of the temple and have to fight the demons and other continues on You are gened with a sweet buildo not have as many types

fron o dizen dillerent types of movement, but Fighting Warrior has only seven. This migra rigge sophisticated than Esplading Rel, but on the other hand it also

rausing) The craphics and animation ore excellent and although toploding this is probably still the definition extracts of months naynem this is a good addition Tope Two starts with Gyron, image-come from Firebird

line graphics against a stery background, are gearded by Celestal Spheres — huge rating softens which wander the man which can raight to blast you or The detrotion in the game is superb and the movement of the

scientist-scorperer is higher

labyrinfs in your craft Hedraid, and negotia Hedraid, and negtoners more to find that hidden knowledge the pathways of the







ARE YOU A BUDDING PROGRAMMER?

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Mail writer or Access teley, huma - intern Tal: 1532 458249. spins, P. D.s payabl for Raintine Genes Software (st. Prospect Notice, 32 Soversign Street, Leefs LS



You Asi the Able a lat to midding magician in the land of lowners have made a based

annoyed Wiserd later you find annoyed waste later you and router stending in a dark, dank

Down in the dungeons

Magick allows you to enter webal commands in order to

the after calculate on the lossen move in response to you commands. The figures are a little less thely drawn than in

blocked the will begin to move, then furn to face you and shrug his shoulden as if to say "well

Your mission... Add a took is aimply to get out of the dungeon alive, but as there Encluding gobins, wywens, and werewolved its a task that

long time. Like an good dungwars this are also hides a number of



Flort and Freuer are set esse in a quick delect, while a

adventuring can boost or lower them so keeping a cose eye on

me, heavy On the Magaint is the list computer game that cores alose to receiving the Busion of an exciting and challenging tentory world, which is what DBO is all about Avid Gargayle pion to produce both Magicit 'inbouler, which comy on from the end of this game and other Gargoyle Games' latest tantasy epic is the best

option offects your stawing, so you can't use it as an easy was

instructions. All the usual pick up/droplesamine commands are

gesting spells and repelling in all the directors of the compass, but it's up to you to experiment and find out the rest

opening to help you and the party of the complex meanings. There is an agre abled Apiex who is, forminately writing to help you got if, for instance, you need help apening a door you can just yoe. "Alexadoo" and Alex will indensiting what you mean Macala stilles just the right. bolance between problem solving and moreter bashing which should miles if to present

and only were been added and animated, and the way that Auti easts speeks is impressive, so that the graphics heep a lot in amazing the light sort of almosphere to the game. There have been many. fantary games such as Gungeons and Bragons in a computer game, most of which

yet. Join ZX as we enter the dungeons of (cemark (but don't forget to bring your

lagick IX Computing Monthly - June 1965

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LIGHT SCREEN

Now that the machine code is complete, Toni Baker gives you the full details of how to use



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DESIGNER

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steems mercery you should press QLAN ASM (17) which will snoble LNDO to work again as

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The geometry pr Light Screen Des

SSCAR followed by "1" Ito return to IASICI then hype SAVE "REDHAM!" SCRIEDS II you then wish to continue chawking the stomes you should hape RANDOMES USE SATE? Similarly to load, signily return to ASICI, was ICAD "Its (MAM", INCREME).

> in Designer are very rid. RUT to plas o I 1915 to drow o little, RLE and RECHANGUE standard There are incluses for disowing on ach oare an anti-

ZK Corpusing Monthly - June 1986

HOUT CONSEN DECION



clockwise are will be drawn

from the Official output to the marker cursor (if this is possible)

worked (s.f for you, positioned diagonally apposite the MARKER outon) SEMPTER ELLPSC will

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SURSOR TYPE Buy 1071 location

To type text on the screen from

type and ordinary type, \$8AM for caps-shift I will enter at

telys in any order followed by tsCAPS ("SPACE") BISAX for toppenhift-spoods, or three will

recessary to enter 5 mode to Light Screen Designer proper you should press either \$55.00

the bore' of the Light Screen Designer geogram is the main load which accupies addresse \$617 to \$650. This piece of

TABLE IS NO extensive recognisation of extensive recognisation of memory would be required Very simply, the first base bytes of the stating should be record from the ISCAN entry in the

this the ackinesses between and DEED will all be free. and you can like use them is to PFF are at present unused so theres into of event. The first new

Colouring In

FAINT and FEL are both designed for colouring in existing pullines. F&I, is intended

LIGHT SCREEN DESIGNER FROM A CHINE CODEIST'S POINT OF VIEW

108 to 0508; CLRSOR HICC IS DECP CHICE HIC ID DEVE MARKET SEA IN 19572 CLUSSON

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I will describe how to do this lotter on little mough, let's look of son of the Individual lubebulines which may be used with your own programs, either in donly notion with the Designer, or by loking out

209 - UNE_LENGTH Coloulate the claim on L, from (MOMR) to (MAMS) Memories MO to M3 are consigned Given ag on calculator stock, solve the 06 - MATRIX simultaneous equations M0"x+M1"Y+p On exit M4 will contain p, and M5 will comple a. The coloulator stock will be In order x, y high that if the equations are unsolingble then a kiple-return will be

MEN TOWN - 86 Will INPUT an item and leave that them on the colouistor stock the substituting required stroug was the estrange of a "promp" state nuMitted and INFUT Like the ground side A3 (input line) O must contain the num characters in the prompt string, 5 must of the fashing L or C currer, and HL must point to the "EMER" aboracter of the end of

265 - ANGLE

ENO - 1 CMP Wart till a key is pressed, then return of EMA - CUIVE Drow & curse — any curse wholsower — or the sorten. On entry &C must protein the number of line segments needed to dissu this curve and H. trust contain the address. Pol tuch a subroutire is thely to use the

Coloulates the gnale, A subtended of the horizontal spouline is cost. On eat A is left

opardinates of the tives custors of oil times — and so on. The



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the use of reutility event for although the although the for although the although gue tower but give if an k by visuality it from a rigid.

I whigh lead uses at the all the game is surpti-

knows that the sound from its weeksity modemanaged to develop of and round routines in that you can get

> its a single quibble on one thing about it i that's the look of a solid but it harmed

Quazatron's author

Steve Turner gives ZX readers on insight into top flight programming with the Dictionery Look-Up Routine used in the gome.

In a come you autokly run out southon allows a 254 ways dictionary to be built up fex can then be input to the machine code routine does o superfact look up to enotice tool "Cucconor" to offee a large test data figurey with retremen



EET DISCTIONARY LONGERT A8*** THEN 60 TO 200 Letter As PORT OLLS LET BODS

PERSON CODE ANIANA LET GHOVE DE TO DO FRM PACHINE CODE LONDER DATA 62,0,32,0,200,0,001,3,70,39,9,61,32,250,77,66,201 LET F960010

FOR AND 10 17 PORT PAA-R HEXT A MEN EXAMPLE OF USE DATA 1,2,3,4,5,255 IF A-055 THEN GO TO SOO PERSE POL A LET LAPEEK BY LET WARRED

LET ANNANCING PERK W

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FOR And TO L

M11

This can be used to input a dictionary to save space in any lines 7 Lines 7 - 90 allow input of the end lig. by 'THS', '15', 'A', room. Lines 200 250 level the mochane dode routine Uner 270 - 383 gives

MEXT A enample of the use priving the



K/128K SPECTRUM UTILIT COOK SLACES 2 or a new connects bendling unifor which will mad AN Decree of a type and AMY since setting it wall had the age of "bestelens". The next will mad Proje or Machine Code programs changed at non-of 3 Single to say - said CA,58 CBAD has now been amelgeraded with our VARLEAS will no allow

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40C Septicing Feet heefs in 100 mas (4500 broat) 129C Never Environ Stary leads in 4 may 10 anns (5500) Ah ilan capturing your CE to a 2 5 into our "EX Compar to next partition" — IL Marital — France



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rpedelite Data Navondo

cide with our net feature, Mark

networks in the

One of the things that has ormunications, (we in the (2001), one of the more popular

combination When the US ween of the Spectrum (IS 2066) was released, the available andware choices increased by uppeade its telecommunications pocaoge but Wristinge Communications released the region which it had made for With the advent of the Westings IS 2000 modern (and later MISSM hman) lets

n oner dreds or the count new notacity was starting install asky Mits, some load communication tonward, was sincleir endine community was somed. Although the actual number of Sincials uses: percentage of all throtes computerials, those who are par of this society represent a food

fows to the rest of the North Information Luckily, there are rational services available via a local hilephone call. The two Zebra

dornation as to happenings

up sub-boards which cow

o sincidia overwis o page to logether and share revision. These titos are idea

here are a number of different rays in which you can contact ecos systems, dissignate Incitor decisidovelopes. The elom 685 (716) 295-2229) come swiffly grow into the first Sincials swiftly grow into the first sinceop-pely 855. Stration owners from all across the country stated. capabilities Singles owners declars get together for a lo on-time cooleen-sea more the galling this New York City based based and Information flowed With the look of coverage from the records of the US press, this was the best squice of

I can be reached on either the Zebra \$65 or on TKE \$00000 BCA022 or Computerve (74215,1346) Colour boards breamativ want rentus Dougla

companies in the US — color and graphics. The W Times reported that in March of this year the Weston and Stateway.

auccessful lext-only services. If the color and graphics was very expensive, and caused the althorithm to those sendous in authoriphon to these senoces to be guille high. Planiphine time connect altarges on the source are about \$7.75 on hose while on Computenve they are \$5.95 hour) in the U.S. It seems With the introduction of the CL is the American market once

continue in an acceptance of the continue of t Agriems, and is available in the US horn Curry Computer (PC) for 5687 Gliendale, AZ 50975-6071 (sozz) 978-2902) for 347(8). That set comes with a hordware adoptor which attaches to the ser2 part on the

tried to other a color and

L chacked to a 199-80 Magere.

I \$3 Alana this correcting wite is

I small box with two swednes. The left hand switch controls the 100 boad. The right hand witch contain the rate of figuration — either 75 boad or 200+200 boad. This is the first clue that haud The is the net cau man this is not American designed hordware, or the 76 based rate is Introverse to the 75 basic rate unknown and unused here in the ES the 75/200 or 1200/75 boud rates that are necessary. boud rater that are neverney due to the configuration of the IT system, is not necessary in North America. This cidaptor is recessivy in the first prope due

to the way that sincider not rionaged drup array was used to control the RS232 port stong with other functions. This Cousel time logs where incoming inforwaring this gill incoming inforwaring this gill be gill incoming to get lost Also, the Ct. Is set for two top bills, not the used US configuration. The letter's great MCGAPTE2 takes

The software ourselfly being applied with the MODMP166 is western 40 of OCCOS This is quite a nice piece of software, and adds many of the teatures if invarid with MTRM on my \$5. 2008 If is quite sample to learn, and has help tiles to arousts necessary

When limit IDADed, you are
prompted to press F3, which
brings you the circolory the
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and potatriers already enrive to restrict MICSONES and who appear to be a lew directory entries. Not will be able to enter

proportions by each previous your numbers, which should be planly of soon. Once these are enferred you will be instructed to councy made as seen as you sceived your software. If will be hype, but as I explained earlied in the US you will use the in the US you will use the teletron mode pagatagity 100% Other settings which you will

traffix step tith and based rate. All based rates traffing 75:1200. wromants that means that unless you are using a 2400 board moders (highly unitsely) you are use any modern which can be connected to the MCDAPTOR Log on

two of the most useful features are the (OG (download) and TRANSHIT (upload) unotions, is nonived you swind likely and are given the default his name of MDV2_LDG_LBS, which you now goodey or change. If o

file of the same name is already on contridge you will be given the apportunity of overweiting it. These files may be imported to These files may be imported to Quilt, or used by the QCOSS lext editor, QED this is a simple time be read into QED and actived the in You can also LOAD _US program may also be imported reto Quill for editing in quisition to text illes, I have successfully

You can also stance up about anything using OCCOS by selecting the TRANSASS option. The detail for this is MOVIL DEMO. US which had time on PESSEL MICHONET and SNOME AT HOME by spreniting

incigine by my earlier description of the lock of color and graphes on US detabases.

| was improved (After one this the USY) You can ahonge the default

you want to sent When using Quill likes, you should FSMT in document to a microdrive contration, and TRANSMIT the resulting __LB life This ophics sees to ZX COMPLITING in lust that manner little column is written on Quit PSWTed to a It file next then IDANIMEN to burge via MCI Mail I have to burge the populationally when they are not being sent, and my

locally may also be used to used superMSEC programs and am going to experiment on There are some legiures, such. IN SAYEING VIEWSISTO SCHOOLS this don't just relate to the North American madust true it is a the only fully viable package currently available in the US

Those conjucted forvists Marketing, who produce a modern pockage for the QL in the UK, per review in the October November 1965 issue of 2001 to Industry object the

possible availability of the G. Comm package in the U.S. I was referred to US lelecom — a tholor company here — who American recitating Although New ore not importing the G Comm package (sett), Mr Sobert Seper Informed me that Oth and would make a decision as to the feasibility of bringing the line to market I would certainly like to use that discission made in our frames

Soffsyno

Just to point our that it is indeed a small world, I received a press release from Software to region IS software publishes who sorted out on the first US IX \$0) losting their new 164 line new director of MW marketing -Niget Seattle total of Station Research Link Day know of this is that between is the the publisher who identify my soften and i

Bector programming templims I submitted my revised software for makering two would say "Brat's great, but I want II to do..." I informed her shall if do. "I rearried her that a couldn't be done as the ZE-81 with 16K, but proceeded to find programming in this manner than all of the books I had ever read I wish Mr Segrie all the

IX Computing Monthly - Ame 1986



Heavy on the Magick



CONVERSATIONS

















GPYLE GAMES LTD., 74 KING STREET, DUDLEY, WEST MIDLANDS DY2 NO



crone politics, religion, music and arkenhan conhects. There is no

Dalay chaffines are a series of nesages that can be archived look to read the pervious 100

A new choline has but have

Sirror Datey comments.
The real value of the charline is that it means notably need ever be learned or combased by a

Celebrity Choffine

Mainframe Chatline

Sometimes the two hour

Micronet's Peter Proved sold ZK Computing Monthly - June 1986

Are you ready for this 1 STARNET is a computer-moderated space travel, trade & war game for up to 500 simultaneous players

uses in your ores. The operating in 1983 it was distinctly periturn to the preside None B erribura rocerning over a system

atten the price range of more and more uses and as Microner's publisher Simon Darcy explained the network is congring with the new influx.
'In the bagginning Microsof ery computer user but now wages are paying because the restriction and information. It is structive to those who want to and a new see for their Within a single criticle it would be impossible to cover the full select of the network so I'll locus - attions

This is on area set aside specifically for Spectrum users

If you wont instant polyton on

Assorbed as a game of Galactic Proportions' States and now has 600 othersteen hunting sound a galaxy at 3000 state in search at weath and power to the unintigled the

with coded throating and undertornoble larger and an engine compress game of high





The Future

means to log on.
Accessing areas of Micror be dropped Sires Deep to dropped Sires Deep "N meses the cost of

proved to be a great success If you fancy playing a new game of 3 aclock in the in real life a middle agod doctor was guited the former ruler by building on oillance of 50 members using Presiel the new potentiate was to declare a national holiday to

GALLERY

issuing decrees - his days reay be manboard The Gallery the apportunity is always there to bit or you like and in time it the heatine proves popular is con-continue to grow the ever expanding myleng section on





63



soving in Tantalus, the atest game from alcksliva. Here's your ance to be the hero

of the hour in our great ickeliya competition. ith ten copies of Tantalus and ten

space-age Speedk loysticks up for grabs

Incinius Compailting Courses

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28 flow many soreens are there is the garnet 3) What is the name of the hero of the garnet When you've gal oil the tayon jud IIII write them on

cont mote things any easier than that one we'll be here we

f) Whot is the name of the

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IMETIGE DIE, 5 NAMES MA, CAMPON I

STARSTRIKE II







Prophecy is a hospidass looby Last month. I went on appealing to home enthusiosts fur is just didn't work for the St. for a modern, auto-answerlou dial and Intelligent Interloop sbout the chances of Sindials spring for a resignated Cit. which was offered as a serious, heavy-duly, would be business marriage fusional uses like their ocasino which look wheel o limed to sell at around £350 is concluded that Sir Clive was interlage) which is copotite of because of the company's shakey financial position but — Friends geen't a real probets but Gr. Lid would be wise to instead of taking my words to hear! — he chose to sell the firm magazines looking for the right peripheral or add-on in a sea of push Sincitair's long-term pages of developing one especially designed to go with the QL. This won't negestarily mean a better printer than those now available configure plains and products I Gt. Util is to do grafting Now I's a ages of either a new St. or no St. of all Arritad more than just light a holding action, the microdrives are gation, the micrograms are going have to go in exchange for a built-in disc drive. This is the most obvious nationalization but what absent all the endless hed dryl remove the breden of Spectrum tax, of least for the fromein, simply doesn't want to know about the GL. This could well change if the boffins in Ammadh RaD department find memory upgrades liceting ground? These are internal up max comfortable with of its processes.

Bidened has a QL mouse due out soon Its octubily been due dolly-choliving expension would be a nice addition to would be a nice addition to patential unal-Existent bount. Checky corepoles with its own products and true doesn't regity would also go nicely with typesoffs ICR deserop software (599-98) worldn is a shade descriptions on yell on the odd business is a complete musble and the best thing that GL Lid cavidaced to use with only the guester lays. At the moment some West Germans are ofering a Gi-mouse and their own descrip QL sell off? pould do would be to market o 512K computer only get it ove with in the investigae, GL (Lis could offer a tiree-way shall the basic 1285 gadget, on expanded GL ham block The Healy cohernative is that Anstrood will sell be QL rights to a consorburn of companies already invalved in manusting periphenals and coffects for the clear shet a coppuring the strengy some talk about a new consortum but such ideas are a long way from anything reserviting reality taking about founding a new corrector is all the old Of, on something get the old QL on something the right loca that Had Shrolok token such a told then - or if Americal new clid if - their woul have been one Tring, but for a an Ecokett with the latest news on the froubled QL a DAM to \$12K by \$15K or a group of companies who have spend their time required by spend their time regresting or vastely of competing peripherols consective selvens. In geing o request o whose wavestorson and the sort of n. This tokes the GI, to a total tout, since it won't work with additional memory in the programs about the poor hading stategy that has so are eluded for Chiefs begin chief antheres bringes then sterribed to erstands for a lot of users for probably more than they need wen and see a be larger and so on an infiniture. The last year eos echas E and when the Oi, Int ruction of they country it days in gum a few cases: 7 also replies a compast and efficient observable to the various lego-tile plugin RAMs now placerains conscribute token over one registring play stands out before all These is a crying need to referralise the Sits varied peripherols, add-one and god-thows what this a coherent product range. Shotiair's toolic of evolugit without the should or Arrefred name behind the computer it GL Ltd gets of the ground, its first problem will be Comms scrieting a base-bases corrouter like the longings As for communications, the CL now leads pretty good, landards Spectrum and leaving f to five three-module postage is now selling at groupe \$150 legisding

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IX Computing Monthly - June 1986

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ofter than sero, then any number ofter than sero, then a program line to do the might look like 1900 IF x THEN

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Different ROMS

possible values of 21 is given had one that there are those in writing these expresses as which are employed densing dilemas between ond 25 versions of the Nambers in this conge, and these was roled in defining a instructions extend over two program lines. Like the F. .. INEN structure, the GL original virtually. eo in cenning a , a variable can be restricte. The 830 in hg 2 ony number of program lines to be associated with one poperty one number opposed to the local variable dr. If in its 850, the command read Silvec sciention each selection i diegry reporated, as each will 650, the commond read work on the the program would work on the talk vention, but not un the 12° GL, favord will not work. deanly separated, as each will start with # | flat of volume? or 'scarbble!# , (fist of volume?' 'Starb structures can be nested with other Studie, or will on a sgrictive criving passed to a defined procedure or function with the EF DOM OF This work on If THEN commands Units 1770 to 2000 in Fig.3 gives on example of this, with oil course.

Keyboard trainer individual numbers with re-in making the selection, for example the structure Lost month, the introductory port was presented as a listing 11 second part of that program appears in tig 3 type in the listing then SMF if ICAD sail SELect on x xm23.10 to 20.25.30

The paperson is MIN of instructions appear on the screen. You then will have a And finally, on the questions

the program times of tig 3. When

peocedures at the beginning or end of programs. You should have found that the rateing speed of SuperlASIC gets slower or a program gets longer, but the position of a bear in mind when writing your own programs)
In the next port of this series. in the next port of this series, well be toking a look of some of the CCs impressive gradetos

ZX Computing Monthly - June 1986



and gotten hersett tropped in the hounted lower. It's up to you to guide her through all seven levels and help

her escape. All you need are nimble

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obout that We know its not Habowein set, but this game was just too good to keep under our lefte pointy buts until then — "Hotioweee" Line 13 cest to sow a copy of the corne

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